



# CIGRE-PES Symposium



## INTEGRATION OF WIDE-SCALE RENEWABLE RESOURCES INTO THE DELIVERY SYSTEM

**CALGARY – Canada**

**29-31 July, 2009**



### Symposium Venue

**Delta Bow Valley Hotel  
Telus Convention Center**

### Symposium Websites

<http://www.cigrepes2009.org/>

<http://www.cigre.org/gb/events/symposium.asp>

### **CIGRE PARIS**

Tel: +33 1 53 89 12 90  
Fax: +33 1 53 89 12 99  
[secretary-general@cigre.org](mailto:secretary-general@cigre.org)

**The Symposium is organized by CIGRE and IEEE PES in cooperation with the Canadian and US National Committees, and Study Committee C6 (Distribution Systems and Dispersed Generation)**

### **BACKGROUND and SCOPE**

Wide-scale integration of renewable generation will bring new technical challenges for planning, operating and maintaining the power system. Variability of wind and solar energy call for new approaches: to connect generation; to schedule, dispatch and balance energy; for protection and frequency/voltage control.

**The objectives of the Symposium are:**

- To address the technical issues related to the emergence of new generation means, for example integration, operation and control of energy, in both transmission and distribution systems
- To present practical examples and best practices
- To assess more general issues as environment impacts and compatibility with electricity markets.

### **PARTICIPANTS**

The Symposium is directed toward electric transmission system operators, generators, manufacturers, traders, design engineers, universities and regulators.

### **MAIN TOPICS**

The Symposium comprises 12 sessions as described in the time-table hereafter. Each session will start with a short presentation of the papers by the author, followed by a discussion.

<b>Wednesday July 29<sup>th</sup></b>		<b>Place</b>
3.00p.m. – 6.00 p.m.	Opening Session	Delta Bow Valley Hotel
6.30 p.m.	Welcome cocktail	Delta Bow Valley Hotel
<b>Thursday July 30<sup>th</sup></b>		
8.30 a.m.–10.30 p.m.	Session 1.1 & Session 2.1	TELUS Convention Center
11.00 a.m.–1.30 p.m.	Session 1.2 & Session 2.2	TELUS Convention Center
3.00 p.m. – 5.00 p.m.	Session 1.3 & Session 2.3	TELUS Convention Center
<b>Friday July 31<sup>st</sup></b>		
8.30 a.m.–10.30 p.m.	Session 1.4 & Session 2.4	TELUS Convention Center
11.00 a.m.–1.30 p.m.	Session 1.5 & Session 2.5	TELUS Convention Center
3.00 p.m. – 5.00 p.m.	Closing Session	TELUS Convention Center

Meetings of Study Committee C6 and Working Groups will take place on Monday and Tuesday before the event.

## Registration Fee

### **Early registration (Up to July 1<sup>st</sup>)**

**CIGRE & PES Members:**  
425 US \$

**Non Member:** 475 US \$

**Companion:** 50 US \$

### **Late registration After July 1<sup>st</sup> & on-site registration**

**CIGRE & PES Members:**  
525 US \$

**Non Member:** 575 US \$  
**Companion:** 75 US \$

**Discounted rate with PES  
GM registration: deduct  
50 US \$**

## **Registrations Website**

<http://www.cigrepes2009.org/>

## **REGISTRATIONS**

The Symposium is open to all. Registrations can be made in advance on line <http://www.cigrepes2009.org/> and also on arrival at the Symposium.

The registration fee covers:

- Attendance and participation in discussion meetings,
- The CD-ROM of papers (forwarded to participants by air-mail) if payment is received before July 17<sup>th</sup>,
- Participation in the welcome cocktail,
- Coffee breaks,
- Lunch is on one's own.

Late registrants will collect their Papers CD-ROM on arrival at the Symposium.

## **PAYMENT OF FEES**

All attendees at the meetings (including authors of Papers) are expected to pay the full registration fees.

Early Registration:

The registration and payment must be made before July 1<sup>st</sup>.

Late registration:

All participants can register online via the website up to July 17<sup>th</sup>. After this date registration can be made on site only, with payment by Credit Card or in cash.

## **CANCELLATIONS**

Cancellations and replacements will be accepted only up till July 17<sup>th</sup>, against a penalty of 50 US \$.

## **HOTEL RESERVATIONS**

Hotel accommodation has been booked at Delta Bow Valley Hotel.

Details on:

- CIGRE website
- <http://www.cigrepes2009.org/>

Optional Tourist Tours will be organized against payment with the PES GM: see on <http://ewh.ieee.org/cmte/PESGM09/>

## **TECHNICAL ORGANIZING COMMITTEE**

Prabha Kundur	(CA)	Chairman, Chairman CA NC CIGRE
Clark Gellings	(US)	Co-Chairman , Chairman US NC CIGRE
Nikos Hatzigiorgiou	(GR)	Co-Chairman , Chairman SC C6
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